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~~CENTRAL INTELLIGENCE AGENCY~~

REPORT

CD NO.

50X1-HUM

COUNTRY US:R

SUBJECT Krasny Instrumentalshchik Factory at Kirov

DATE DISTR. 30 SEP 49

NO. OF PAGES 3

PLACE
ACQUIRED

DATE OF INFO.

NO. OF ENCL'S.
(LISTED BELOW)

SUPPLEMENT TO
REPORT NO.

THIS IS UNEVALUATED INFORMATION

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1. The Krasny Instrumentalshchik Instrument Factory (Instrumentalny Zavod Krasny Instrumentalshchik), now located at Kirov (ex-Vyatina), was opened in Leningrad in 1930 and specialized in the production of measuring instruments. The Leningrad Instrument Artel, composed of skilled workmen, which had existed in Leningrad since 1923, provided a nucleus for the establishment of the factory. At that time the factory was located on the Neva River, not far from Okhta Bridge. Its buildings faced Nizhnedelnyy ulitsa and Moiseyenko ulitsa. Adjoining the factory was the 2nd GES (State Electric Power Station), which supplied the factory with power.
2. By the beginning of the war, the factory had become one of the large special enterprises producing measuring instruments such as micrometers, slide gauges, lever (rychazny) devices, and various control and measuring appliances.
3. At the beginning of the war, in 1941, the factory was evacuated to Kirov. In 1942 it was already producing measuring instruments and, to a small extent, apparatus for defense.
4. After the war, the factory remained at Kirov and was replaced in Leningrad by a new instrument factory called Leningrad Instrument Factory (Leningradskiy Instrumentalny Zavod). Some of the personnel of the Kirov factory were transferred to the new Leningrad factory. Production of the two factories is similar: measuring instruments and appliances.
5. The factory belongs to the Chief Directorate of the Instrument Industry of the Ministry of Machine Tool Construction of the USSR.
6. Type of Product:
 - a. Angle gauge blocks (uglovaya plitka) for checking universal bevel protractors (universalny uglomer) and angle gauges (uglovoi shablon).
 - b. Plane-parallel gauge blocks (ploshcheparallelnaya plitka) of various types and sizes.

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NO CHANGE in Class.

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Class. CHANGED TO: TS

DDA Memo, 4 Apr 77

Auth: DDA REG. 77/1763

Date: 27 MAY 1979

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- g. Surface plates (izmeritelnyye plitki) of special cast iron for checking planes of surfaces, of various sizes from 100 x 150 mm to 1,000 x 1,500 mm, used for the paint stain method (pe moteta ryatan na krasku).
- d. Checking rulers, gauge rulers, set squares (pravougolnaya litsitsa, izmeritelnyye, uglovaya) used for the paint and light slit method (moteta na krasku i svetovoye shchelo).
- e. Try-squares (ugolniki) of various types.
- 3. Universal bevel protractors (uglomer) of Semenov type for measurement of angles from 0 to 320 degrees (precision to two seconds).
- 3. Universal bevel protractors (uglomer) of Kuchalov type. (Kuchalov is employed in the Heavy Instrumental Machine Factory.)
- b. Universal lever overvolt gauges (universalnye-ryuchashchy overvotomery) for measurement of cylindrical gears (tsilindricheskoye zubchatoye koloso).
- 1. Pitch gauges (shagomer) for measurement of size of basic pitch of cylindrical gears.
- 3. Instruments for measurement of bevel gears (konicheskoye zubchatoye koloso).
- k. Mechanical lever instruments (ryuchashchy-mekhanicheskiy pribor) for measurement of lengths by comparative methods, e.g.:
 - 1) Limit gauges (minimomery) with graduations of 0.001 and 0.005 mm (produced in large series).
 - 2) Deviation gauges (pessometr) with graduations of 0.002 mm (also produced in large series).
 - 3) Clock-type indicators (indikatory chasovogo tipa) with graduations of 0.01 mm and diameter of clock 25 mm (mass-produced by conveyor belt system).
 - 4. Microindicators (Mikroindikator) with graduations of 0.001 and 0.0005 mm.
- 1. Micrometers of various types:
 - 1) Micrometers for external measurements.
 - 2) Micrometric inside caliper gauges (shchitannaya).
 - 3) Micrometric depth gauges (glubinomery).
 - 4) Micrometers for checking small diameter gears.
 - 5) Micrometers for soft materials.
 - 6) Other micrometers.
- m. Beam compasses (shtangenshtabnyy)
- n. Height gauges (shtangenshtabnyy)
- c. Depth gauges (shtangenshtabnyy)

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- p. Indicator assemblies, various stands (stela) for indicators with small and large tables (stol), levers for inside and zero (vortsey) measurements, etc., all mass-produced.
- q. Gauges of a very large number of types and for various purposes: plug gauges (probn), staple gauges (shkta), ring gauges (koltsa), counter gauges (kants-kalibr), etc.
- r. A large number of ordinary assembling (montazhny) tools for the automobile, tractor, and agricultural implements.

7. Actual output:

[redacted] output of some articles as follows:

- a. Gauges (kalibr) of various types: about one million per annum.
 - b. Beam compasses (shkengantirul) in 1948: about 50,000.
 - c. Micrometers of various types in 1948: about 35,000.
8. Personnel: At Leningrad in 1948 the factory employed 2,000 persons. At present it employs about 1,000. In 1942 the director was Semen Ivanovich Kalinin, who in 1948 was appointed director of the Komarolets Machine Tool Factory and was replaced by Gladkov.

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